

CLAIMS

1 , A process for producing bisphenol A by subjecting phenol and acetone to condensation reaction in the presence of, as a catalyst, an acid type ion exchange resin which is modified in part with a sulfur-containing amine compound, characterized in that said ion exchange resin having a modification rate in the range of 10 to less than 20 mol% is used for a methanol concentration in acetone of lower than 250 ppm by weight, and said ion exchange resin having a modification rate in the range of 20 to 65 mol% is used for a methanol concentration in acetone being in the range of 250 to 8000 ppm by weight.

2 . The process for producing bisphenol A according to Claim 1, wherein the ion exchange resin having a modification rate in the range of 26 to 65 mol% is used for a methanol concentration in acetone being in the range of 700 to 8000 ppm by weight.

3 . The process for producing bisphenol A according to Claim 1, wherein said acid type ion exchange resin is strongly acidic sulfonic acid type ion exchange resin.

4 . The process for producing bisphenol A according to Claim 1, wherein the sulfur-containing amine compound is at least one species selected from the group consisting of mercaptoalkylpyridines,

mercaptoalkylamines, thiazolidines and aminothiophenol.

5 . The process for producing bisphenol A according to Claim 4, wherein the mercaptoalkylamine is 2-mercaptoethylamine and the thiazolidine is 2-2-dimethylthiazolidine.

6 . The process for producing bisphenol A according to Claim 1, wherein the phenol and acetone are subjected to condensation reaction in reaction equipment equipped with at least two reactors in series.

7 . The process for producing bisphenol A according to Claim 6, wherein the phenol and acetone are subjected to condensation reaction under the conditions including an acetone /phenol molar ratio in the range of 1/30 to 1/3 and a reaction temperature in the range of 40 to 150°C.